FIG. 1

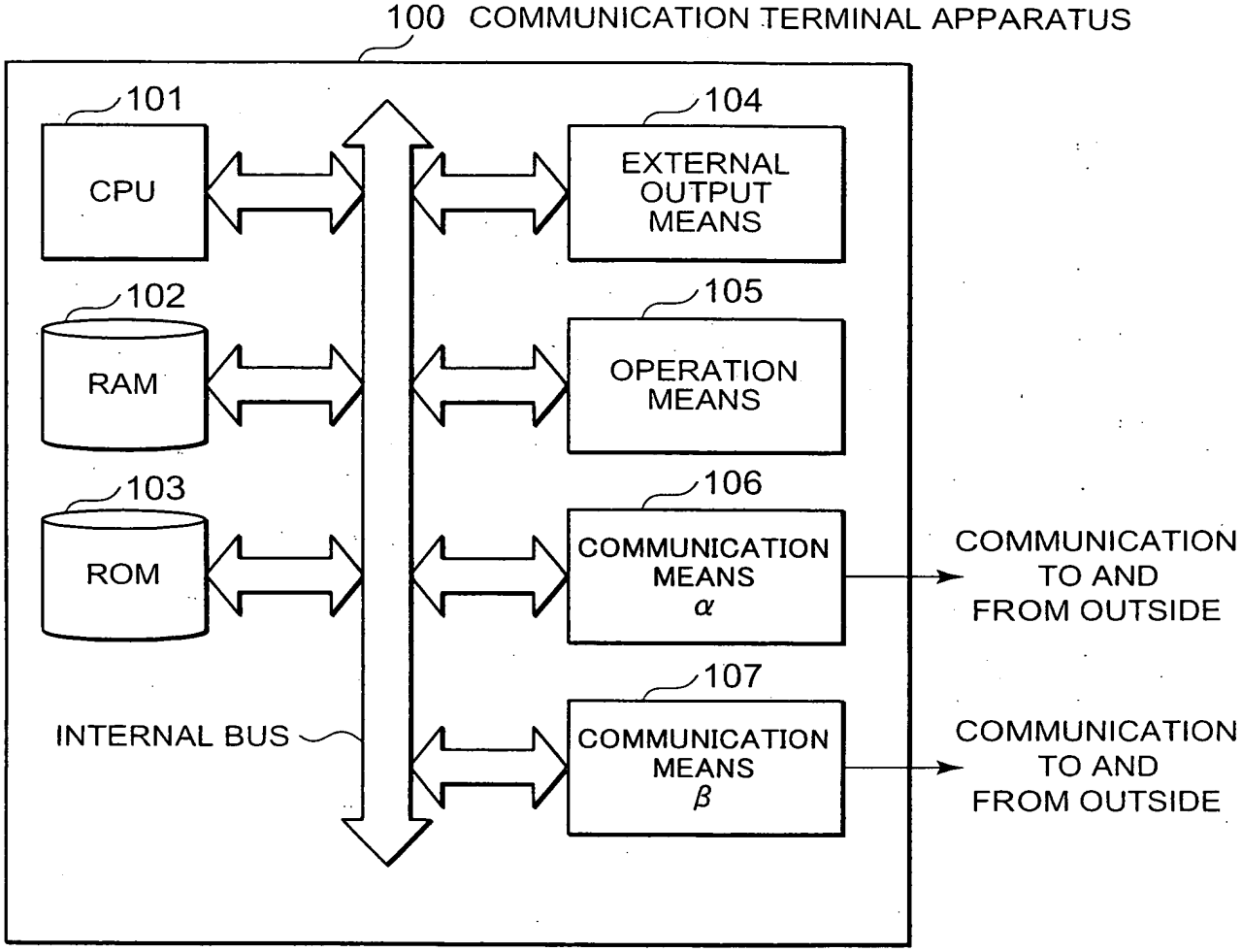

100 COMMUNICATION TERMINAL APPARATUS
101
CPU
102
RAM
103
ROM
INTERNAL BUS
104
EXTERNAL OUTPUT MEANS
105
OPERATION MEANS
106
COMMUNICATION MEANS α
107
COMMUNICATION MEANS β
COMMUNICATION TO AND FROM OUTSIDE
COMMUNICATION TO AND FROM OUTSIDE

FIG. 2

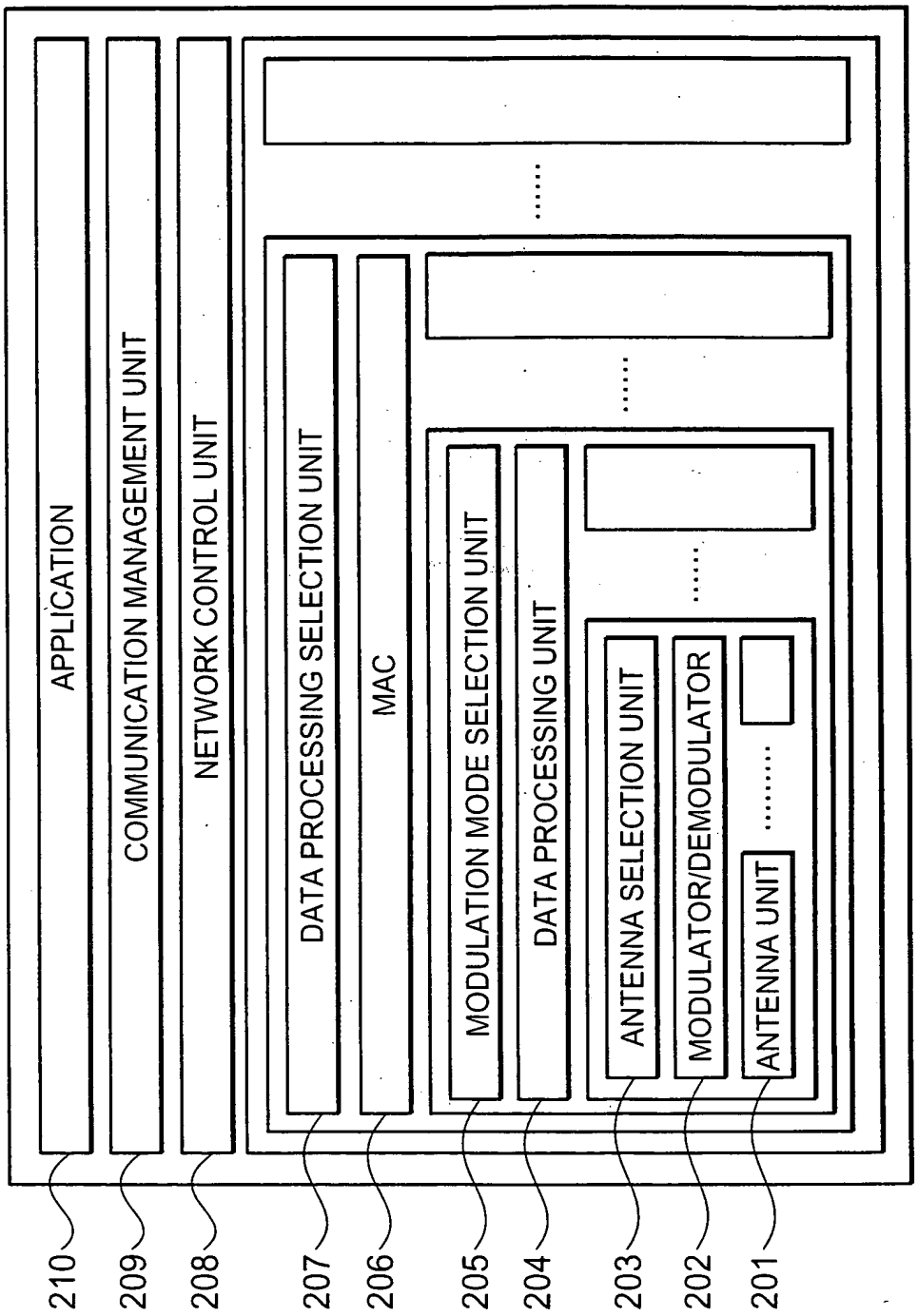

APPLICATION
COMMUNICATION MANAGEMENT UNIT
NETWORK CONTROL UNIT
DATA PROCESSING SELECTION UNIT
MAC
MODULATION MODE SELECTION UNIT
DATA PROCESSING UNIT
ANTENNA SELECTION UNIT
MODULATOR/DEMODULATOR
ANTENNA UNIT
210
209
208
207
206
205
204
203
202
201

FIG. 3

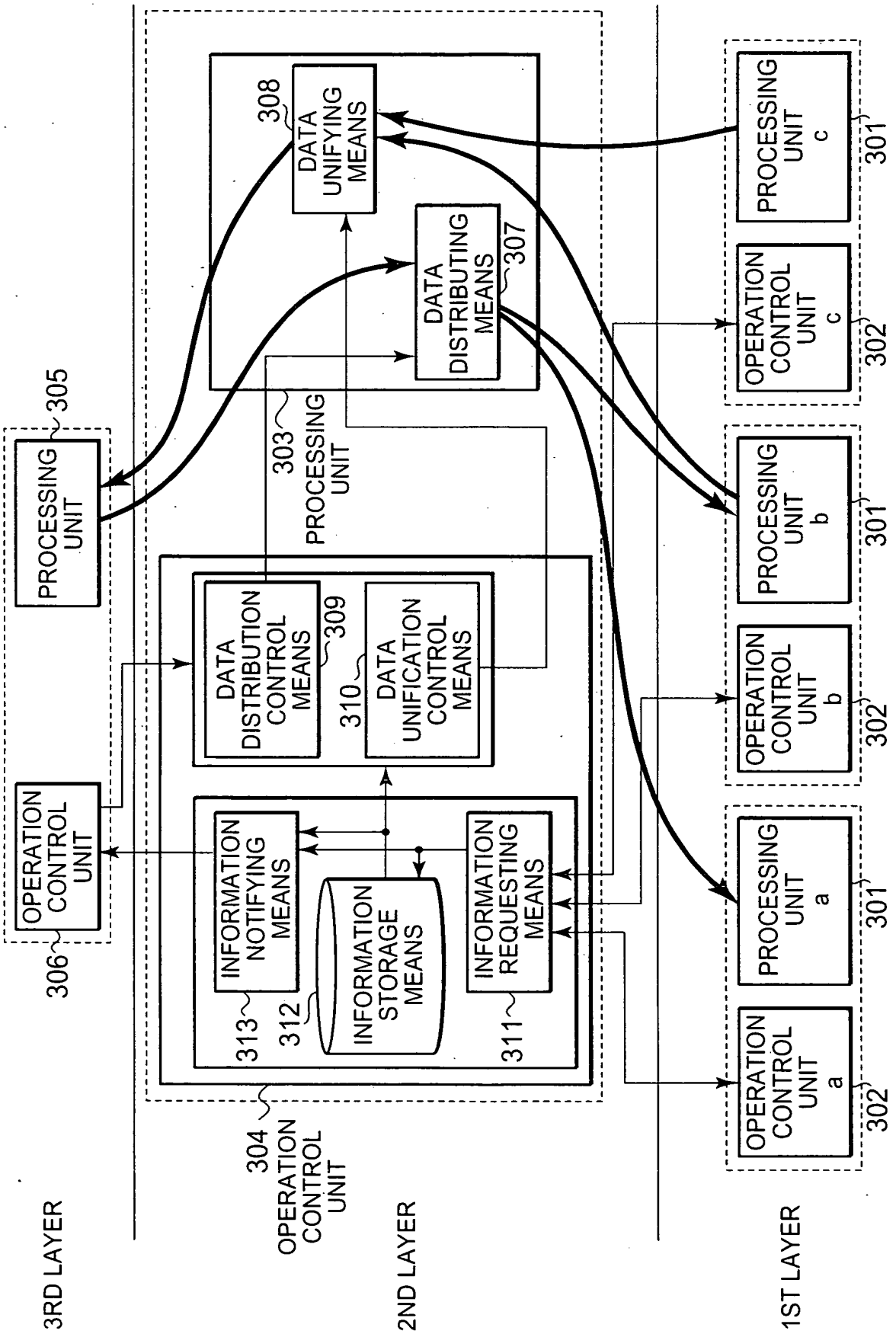
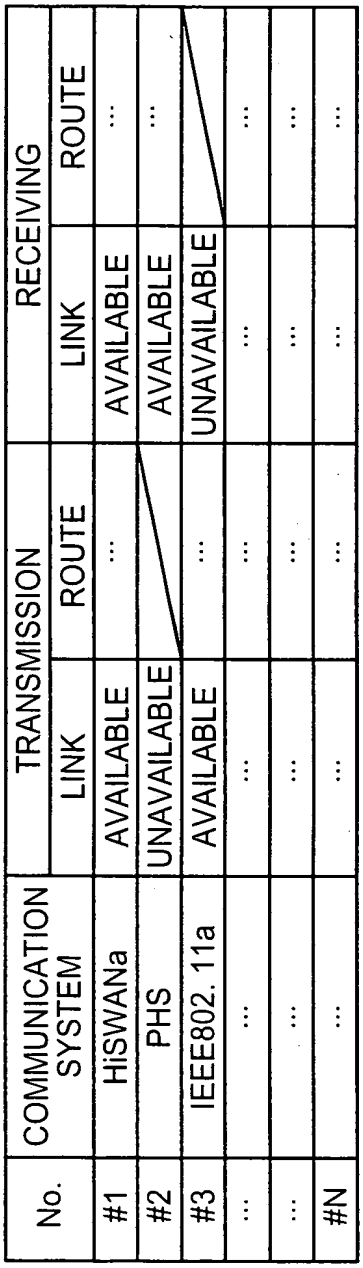

3RD LAYER
2ND LAYER
1ST LAYER
PROCESSING UNIT
305
OPERATION CONTROL UNIT
306
304 OPERATION CONTROL UNIT
303 PROCESSING UNIT
308 DATA UNIFYING MEANS
DATA DISTRIBUTING MEANS
307
DATA DISTRIBUTION CONTROL MEANS
309
DATA UNIFICATION CONTROL MEANS
310
INFORMATION NOTIFYING MEANS
313
INFORMATION STORAGE MEANS
312
INFORMATION REQUESTING MEANS
311
PROCESSING UNIT c
PROCESSING UNIT b
PROCESSING UNIT a
301
OPERATION CONTROL UNIT c
OPERATION CONTROL UNIT b
OPERATION CONTROL UNIT a
302

FIG. 4



No.	COMMUNICATION SYSTEM	TRANSMISSION		RECEIVING	
		LINK	ROUTE	LINK	ROUTE
#1	HiSWANa	AVAILABLE	...	AVAILABLE	...
#2	PHS	UNAVAILABLE		AVAILABLE	...
#3	IEEE802. 11a	AVAILABLE	...	UNAVAILABLE	
...	...	...	...	...	...
...	...	...	...	...	...
#N	...	...	...	...	...

FIG. 5

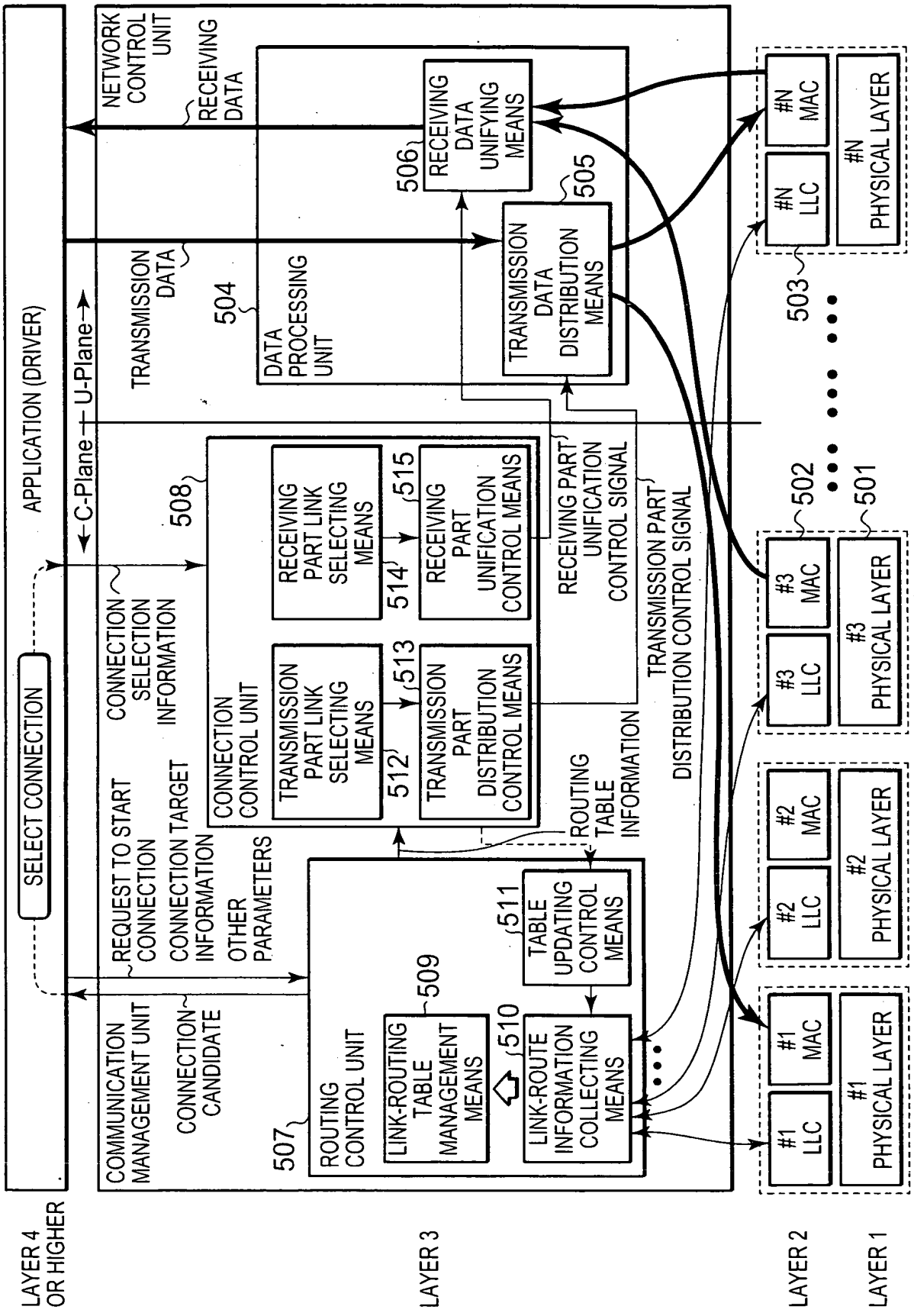

LAYER 4 OR HIGHER
LAYER 3
LAYER 2
LAYER 1
APPLICATION (DRIVER)
SELECT CONNECTION
C-Plane
U-Plane
NETWORK CONTROL UNIT
RECEIVING DATA
TRANSMISSION DATA
504
DATA PROCESSING UNIT
506
RECEIVING DATA UNIFYING MEANS
505
TRANSMISSION DATA DISTRIBUTION MEANS
503
#N MAC
#N LLC
#N PHYSICAL LAYER
502
501
#3 MAC
#3 LLC
#3 PHYSICAL LAYER
IEEE802. 11a
#2 MAC
#2 LLC
#2 PHYSICAL LAYER
PHS
#1 MAC
#1 LLC
#1 PHYSICAL LAYER
HiSWANa
COMMUNICATION MANAGEMENT UNIT
REQUEST TO START CONNECTION
CONNECTION TARGET INFORMATION
OTHER PARAMETERS
CONNECTION-CANDIDATE
CONNECTION SELECTION INFORMATION
508
CONNECTION CONTROL UNIT
RECEIVING PART LINK SELECTING MEANS
514
515
RECEIVING PART UNIFICATION CONTROL MEANS
TRANSMISSION PART LINK SELECTING MEANS
512
513
TRANSMISSION PART DISTRIBUTION CONTROL MEANS
RECEIVING PART UNIFICATION CONTROL SIGNAL
TRANSMISSION PART DISTRIBUTION CONTROL SIGNAL
ROUTING TABLE INFORMATION
507
ROUTING CONTROL UNIT
509
LINK-ROUTING TABLE MANAGEMENT MEANS
510
LINK-ROUTE INFORMATION COLLECTING MEANS
511
TABLE UPDATING CONTROL MEANS

FIG. 6

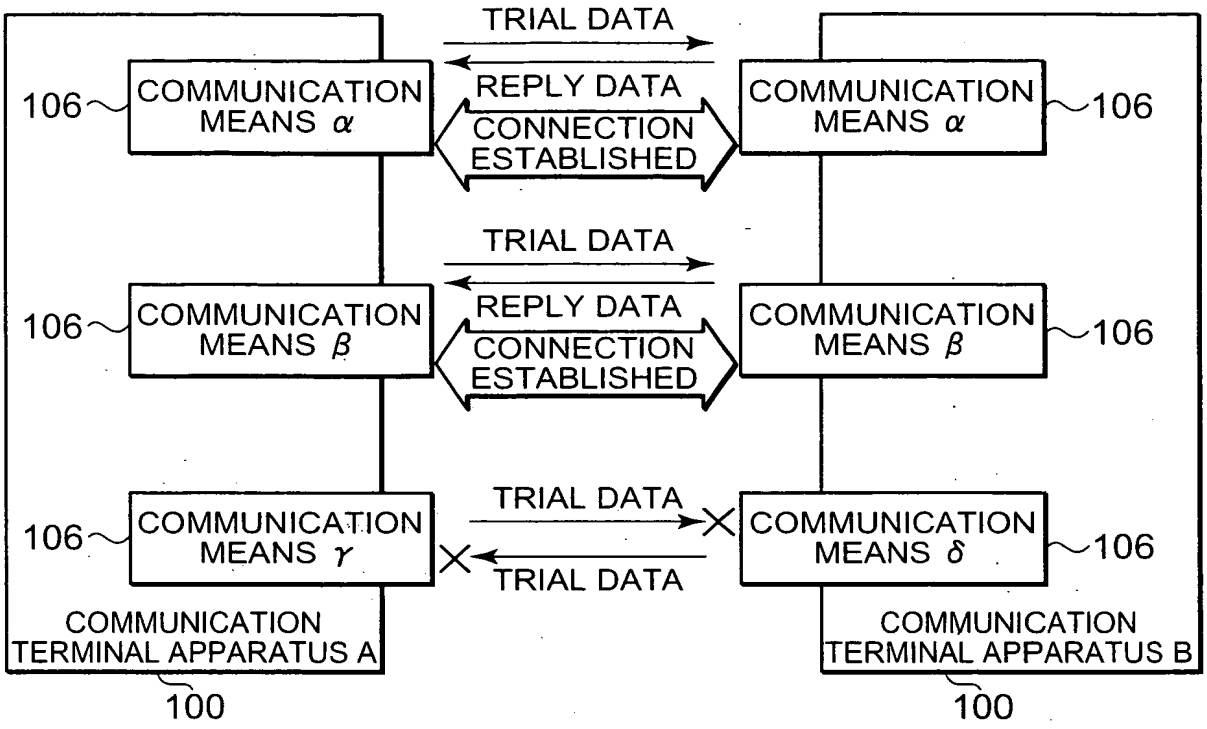

TRIAL DATA
REPLY DATA
CONNECTION ESTABLISHED
TRIAL DATA
REPLY DATA
CONNECTION ESTABLISHED
TRIAL DATA
TRIAL DATA
106
COMMUNICATION MEANS α
COMMUNICATION MEANS α
106
106
COMMUNICATION MEANS β
COMMUNICATION MEANS β
106
106
COMMUNICATION MEANS γ
COMMUNICATION MEANS δ
106
COMMUNICATION TERMINAL APPARATUS A
100
COMMUNICATION TERMINAL APPARATUS B
100

FIG. 7

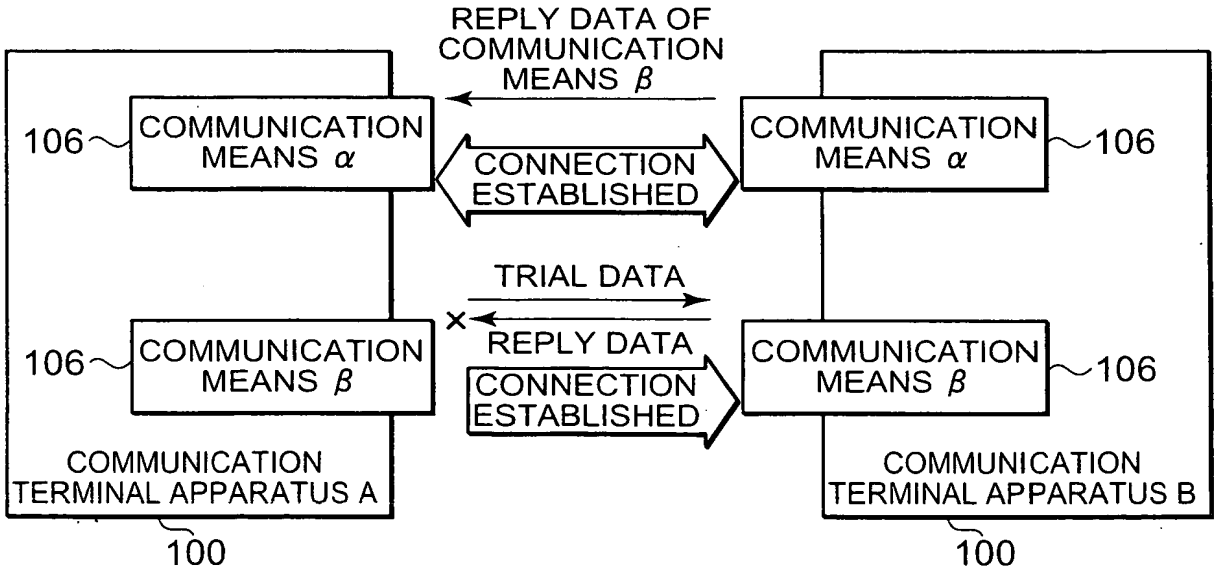

REPLY DATA OF COMMUNICATION MEANS β
CONNECTION ESTABLISHED
TRIAL DATA
REPLY DATA
CONNECTION ESTABLISHED
106
COMMUNICATION MEANS α
COMMUNICATION MEANS α
106
106
COMMUNICATION MEANS β
COMMUNICATION MEANS β
106
COMMUNICATION TERMINAL APPARATUS A
100
COMMUNICATION TERMINAL APPARATUS B
100

FIG. 8

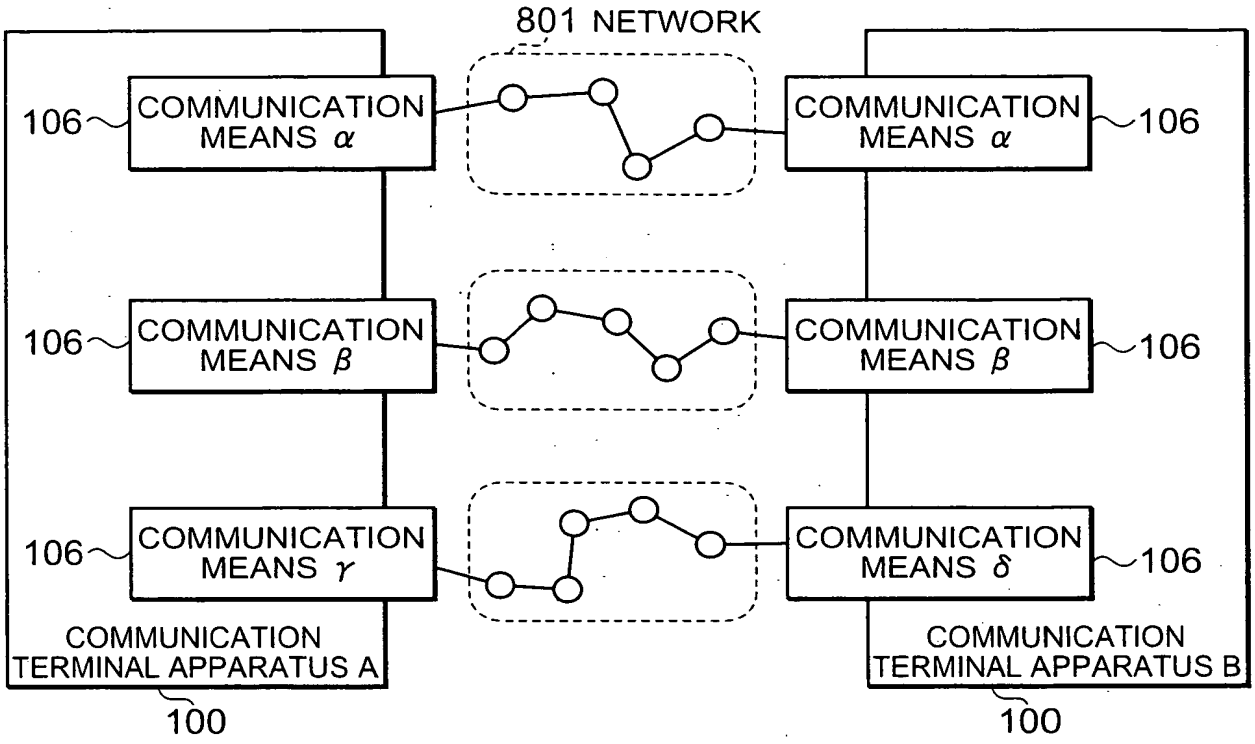
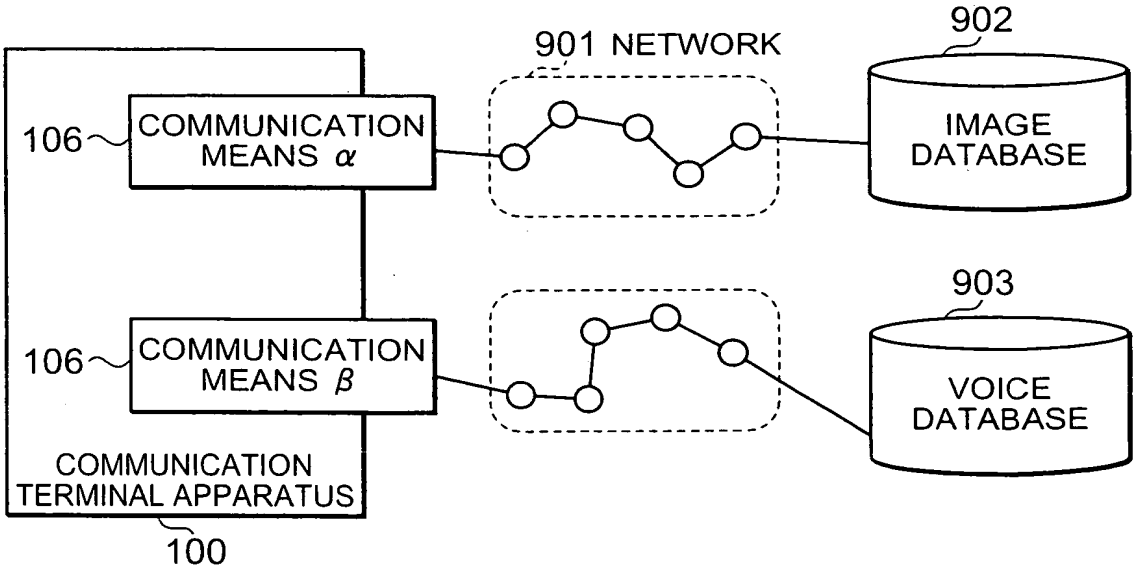

801 NETWORK
106
COMMUNICATION MEANS α
COMMUNICATION MEANS α
106
106
COMMUNICATION MEANS β
COMMUNICATION MEANS β
106
106
COMMUNICATION MEANS γ
COMMUNICATION MEANS δ
106
COMMUNICATION TERMINAL APPARATUS A
100
COMMUNICATION TERMINAL APPARATUS B
100

FIG. 9


902
901 NETWORK
106
COMMUNICATION MEANS α
IMAGE DATABASE
903
106
COMMUNICATION MEANS β
VOICE DATABASE
COMMUNICATION TERMINAL APPARATUS
100